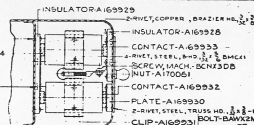


WASHER-A3558  
TLR-BUCKLE-A9597  
PIN-A-8C45

Z-PHET, COPPER, SPACED-B-37  
CONTACT-A169924

Z-PHET, COPPER, FL-37



TRAY-B157498R, SECTION A-A

CONNECTION-A169977R

NUT-A169985  
PIN, COTTER-BFAX18D  
SPRING HELICAL-A169919  
SCREW, MACH-BCKX3DC  
SWITCH AND SOCKET-A170205

DOOR-B15748  
SPOT WELD TO BODY  
ONE  
SUPERSEDES OLD DWG. D34005  
UNDER REVISION DATE OF 12-20-

LINE NO	LIST OF DRAWINGS	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER	DRAWING NUMBER
1	CASE, TOOL	D34005							
2	SWITCH AND SOCKET	A170205	A5597	A169924	A169924	B157483	C17840	D34004	B8841
3	CONNECTION	A170206	A5598	A169924	A169924				BCK13
4	WASP	A169921	A17550	A169924	A169924				BCK11
5	WASHER	A169928	A169928	A169928	A169928				BCK11
6	REINFORCE	A169921	A169921	A169921	A169921				BCK12
7	CONNECTION	A169927	A169927	A169927	A169927				BCK12
8	DOOR	B15748	A169928	A169928	A169928				BCK12
9	BOTTOM	B15748	A169928	A169928	A169928				BCK12
10	TRAY	B157498	A169928	A169928	A169928				BCK12
11									
12	LID	C68367	A169924	A169924	A169924				
13	SEPARATOR	C68368	A169924	A169924	A169924				
14	LIST OF AUTHORIZED ASSEMBLIES	B15748	A169928	A169928	A169928				
15	BODY AND SEPARATOR	D34261	A169928	A169928	A169928				
16	LIST OF PARTS	B156823	A169928	A169928	A169928				
17	LIST OF PARTS	B156823	A169928	A169928	A169928				
18	LIST OF PARTS	B156823	A169928	A169928	A169928				

8 PERTAINS TO ALTERNATE DESIGN

8 FINDING DIAGRAM

REVISIONS		DATE	BY	REASON
1	REVISION			
2	REVISION			
3	REVISION			
4	REVISION			
5	REVISION			
6	REVISION			
7	REVISION			
8	REVISION			
9	REVISION			
10	REVISION			
11	REVISION			
12	REVISION			
13	REVISION			
14	REVISION			
15	REVISION			
16	REVISION			
17	REVISION			
18	REVISION			
19	REVISION			
20	REVISION			
21	REVISION			
22	REVISION			
23	REVISION			
24	REVISION			
25	REVISION			
26	REVISION			
27	REVISION			
28	REVISION			
29	REVISION			
30	REVISION			
31	REVISION			
32	REVISION			
33	REVISION			
34	REVISION			
35	REVISION			
36	REVISION			
37	REVISION			
38	REVISION			
39	REVISION			
40	REVISION			
41	REVISION			
42	REVISION			
43	REVISION			
44	REVISION			
45	REVISION			
46	REVISION			
47	REVISION			
48	REVISION			
49	REVISION			
50	REVISION			
51	REVISION			
52	REVISION			
53	REVISION			
54	REVISION			
55	REVISION			
56	REVISION			
57	REVISION			
58	REVISION			
59	REVISION			
60	REVISION			
61	REVISION			
62	REVISION			
63	REVISION			
64	REVISION			
65	REVISION			
66	REVISION			
67	REVISION			
68	REVISION			
69	REVISION			
70	REVISION			
71	REVISION			
72	REVISION			
73	REVISION			
74	REVISION			
75	REVISION			
76	REVISION			
77	REVISION			
78	REVISION			
79	REVISION			
80	REVISION			
81	REVISION			
82	REVISION			
83	REVISION			
84	REVISION			
85	REVISION			
86	REVISION			
87	REVISION			
88	REVISION			
89	REVISION			
90	REVISION			
91	REVISION			
92	REVISION			
93	REVISION			
94	REVISION			
95	REVISION			
96	REVISION			
97	REVISION			
98	REVISION			
99	REVISION			
100	REVISION			

MICROFILM - A44 -

731



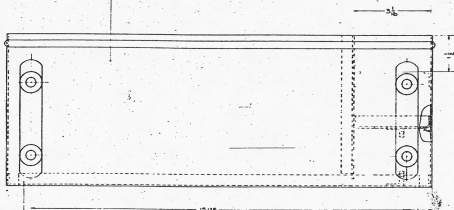


- BODY-D34004



STAMP PIECE MARK

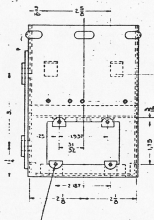
- REINFORCE-A169911#



BOTTOM-B157482-\*

BODY AND SEPARATOR  
(SPOT WELDED)

03426



-ANGLE-A169923

—— 125(140)40HC-2 = 4 HOLES

#### \* FINDING DIAGRAM

JUNE 06, 1958		CLASS	REVISION	REVISION
REVISOR				
14-2-40		SYMBOL		
ORG. PERTAINS TO		PLANT A	PLANT	CLASS
F54005		A. W. R.	100	60
		UNTESTED		
		EXAMINED		
		100% APPROVED BY OTHERS IN THE SAME OF		
D34261		ORDINANCE DEPT. U.S.		

MADE AT ROCK ISLAND A.

MICROFILM - A 44 -

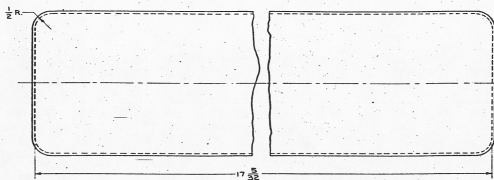
723

PHYSICAL PROPERTIES		JUNE 30, 1939	
		REVISIONS	
TEMP		1	4-12-40
TS			
SL 2			
IND			
Sp			
WICK			
NCI			

ORG. PERTAINS TO

C91604

C91604



PIECE (CG7840)  
PLAIN CARBON STEEL  
 $\frac{1}{16}$  THICK, HOT ROLLED,  
PICKLED, DEEP DRAWING

### PLAIN CARBON STEEL

$\frac{1}{16}$  THICK, HOT ROLLED,  
PICKLED, DEEP DRAWING

PICKLED, DEEP DRAWING

NOTE:-  
MAKE TO FIT BODY AND SEPARATOR, D34261.  
REMOVE ALL SHARP EDGES.

MAKE TO-FIT BODY AND SEPARATOR, D34261.  
REMOVE ALL SHARP EDGES.

REMOVE ALL SHARP EDGES.

```

PARAGRAPH OR DISPOSITION
NOT OTHERWISE SPECIFIED
DECIMAL :
FRACTIONAL :
AVAILABLE :

```

SYMBOL

NAME	DATE	TIME
A. J. 7/11	2 20 5	
CHAPTER	SECTION	TEST
1	1	1
SUBMITTED		

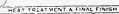
APPROVED BY ORDER OF THE CHIEF OF ORIGIN:

MADE AT ROCK ISLAND A

SCALE  $\frac{1}{1}$  067840

MICROFILM - A44 - 772





KEY - A25210  
SCREW - BCWX1BE

TUBE

SCREW - A 25212

NUT - B8448

DISK - A166315

RING-036224

78 00 ± 03  
LENGTH OF TUBE

3978 ± 20

98101 - - 2807 0.4 METAL TAPER 0.247 PER INCH  
(REFERENCE)

REFERENCE:

DIAMETRAL TAPER: .0094 PER INCH  
(REFERENCE)

NOTE: TRANSMISSION LEAD ENOUGH TO COVER PER FOOT

TUBE  
FOR TUBE FORMING SEE LOTS 1-1022

SCALE 1" = 480' LOCATION OF THREAD ON  
50: MAJOR DIA AT TOP OF VERTICAL C

RADIUS OF CUTTER

SECTION 8.3

SCALE 7  
SECTION: AA

NOTE:— COPPER PLATE, USING SULPHATE AND  
CAST IRON FILINGS DISSOLVED IN WATER

GUN, 37 MM. M3  
GENERAL DRAWING

JULY 28, 1939 REVISIONS 7-28-39		CLASS DIVISION DRAWING FILE 51 100 2	
DRG PERTAINS TO		SYMBOL REF NST C-7 JK	
D		ORDNANCE DEPT. U.S.A. 175	

MICROFILM - A 44 -









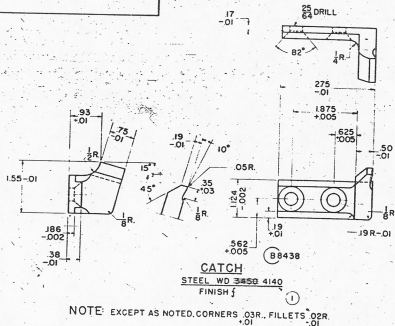








HEAT TREATMENT AND FINAL FINISH  
HEAT TREAT



NOTE: EXCEPT AS NOTED, CORNERS .03R, FILLETS .02R.

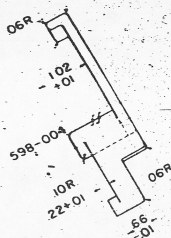
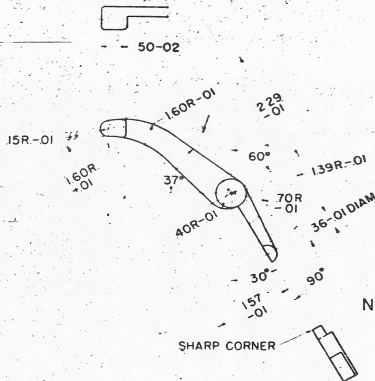
SCALE: 1 B8438

PHYSICAL PROPERTIES		DECEMBER 22, 1938
TEMP	11-15-42	
T.S.		
EL.		
RED		
HT		
RR		
ROCK	C 43	
	C 48	
LAW PERTAINING TO		
51-100-5		
WMB I.R. 31		
CE OF		
B8438		

MICROFILM - A 44 -

27

CARBURIZE 1/2 DEEP  
FILE HARD



LEVER  
STEEL WD 3415  
FINISH 5

B8443

NOTE: EXCEPT AS NOTED, CORNERS .03R, FILLETS .02R.

SCALE 1" = 1" B8443

Y P	
T D	
EL	
REC	
MT I	
HW	
SCL	
CC	

DRG PE  
51-100-  
51-104-

WSS I  
CH KN

PA  
C.V.

MICROFILM - A 44 -



A circular diagram representing a cross-section of a rifling mark. It consists of two concentric circles. The space between the circles is divided into four equal quadrants by a vertical and a horizontal line. The text "BOTTOM OF RIFLING" is written diagonally across the lower-left quadrant, with an arrow pointing to the boundary between the two circles in that quadrant.

VERTICAL AND HORIZONTAL V-SHAPED  
LINES .04 WIDE .03 DEEP

C O F G

~~CENTER OF GRAVITY MARKING - 2~~

010R MAX  
005R MIN

GUN, 37MM. M3 No.....  
ORD. DEPT. U.S.A.  
WVT. ARSENAL 19.....  
LBS. INSP.....  
GUN, 37MM. M6 No.....  
ORD. DEPT. U.S.A.  
WVT. ARSENAL 19.....  
LBS. INSP.....

NOTE:- MARKING ON LOWER HALF FOR MG GUNS.

## BREECH MARKING

SCALE  $\frac{1}{1}$  C70402

PHYSICAL PROPERTIES		DECEMBER 22, 1938	
		REVISIONS	
Y.P.		1	9-19-41
Y.S.		2	11-22-41
FL 2		3	6-16-43
RED			
BR			
ROCK			
SCL			

DRG PERTAINS TO

51-100

53-104	
53-105	

--	--

SYMBOL					
STAFF		UNIT		CLASS	
PMF		IR			
P		ER		TWO	
COUNTRY <i>Pakistan</i>					
COL AND BENT & S					
APPROVED BY SIGNATURE OF THE CHIEF OF STATION:					
DATE					
ORIGINATING OFFICE					

MICROFILM - A 44 -

45



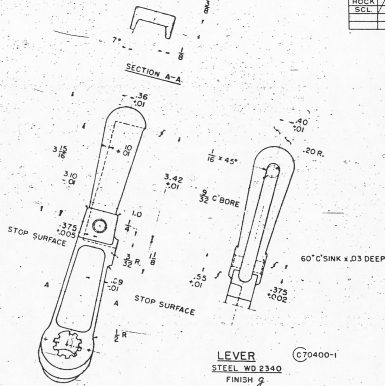
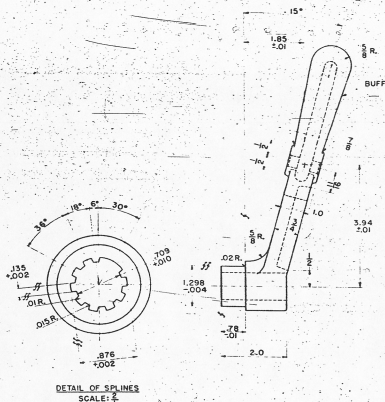


HEAT TREATMENT & FINAL FINISH  
HEAT TREAT BEFORE MACHINING  
BRINELL 535 - 255

PHYSICAL PROPERTIES		DECEMBER 22, 1938	
TEMP	10-12-40	REVISIONS	
T.S.	2	10-24-40	
ELP			
WLO			
BR			
ROCK			
SCL			

DRG PERTAINS TO

C70401	
C70430	



NOTE: EXCEPT AS NOTED, CORNERS .06R, FILLETS .05R.  
DO NOT STAMP PIECE MARK ON THE FINISHED PART.

SCALE: 1/2 C70400

SYMBOL	
WSS	IF
WSS	IF
WSS	IF
WSS	IF
WSS	IF
WSS	IF
WSS	IF
WSS	IF
WSS	IF
WSS	IF

MICROFILM - A44 - 50





HEAT TREATMENT & FINAL FINISH		PHYSICAL PROPERTIES			A164120 JUNE 30, 1939
T P	RED	BK	NCL	REVISIONS	
T S	BK	ROCK		1 4-12-40	
EL. 2				2 6-7-40	
				3 2-3-43	
<p style="text-align: center;"><b>BOSS</b> <b>STEEL, WD4020</b>      A164120-2 COLD FINISHED</p> <p style="text-align: center;">SCALE <math>\frac{2}{1}</math></p>				DRG. PERTAINS TO	
				A164119	
				SYMBOL	
				<div style="display: flex; justify-content: space-between;"> <div> <small>REVIEWED</small> ✓ <small>CHECKED</small> SLM </div> <div> <small>TRACED</small> ✓ <small>CHECKED</small> SLM </div> <div> <small>1.000 REVISIONS</small> ✓ <small>CHECKED</small> SLM </div> </div>	
				SUBMITTED:	
				<small>APPROVED &amp; SIGNED BY THE CHIEF OF ORDNANCE</small> <small>ORDNANCE DEPT. U. S. A.</small>	
				<small>MADE AT ROCK ISLAND ARSENAL</small>	
				<small>ORDNANCE DEPT. U. S. A.</small>	
				<small>MADE AT ROCK ISLAND ARSENAL</small>	
				<small>ORDNANCE DEPT. U. S. A.</small>	

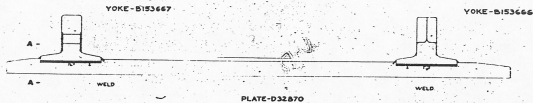
MICROFILM - A44 -

7









**SLEIGH**  
WELDED CONSTRUCTION

SUPERSEDES OLD TRACING D32850 UNDER REVISION DATE OF 1-1-43

JUNE 30, 1939	
REVISIONS	
2. <i>HW</i>	
	1. STANCES ON ENCL. NOT OVERPAGE COPY SET FOR FRANCHISE BUREAU OF
	G.M. <i>CS</i>
DRG PERTAINS TO	SUBMITTED
D 33991	LEARNED
	1. STANCES ON ENCL. NOT OVERPAGE COPY SET FOR FRANCHISE BUREAU OF
	G.M. <i>CS</i>
DRG PERTAINS TO	SUBMITTED
D 33991	LEARNED
	1. STANCES ON ENCL. NOT OVERPAGE COPY SET FOR FRANCHISE BUREAU OF
	G.M. <i>CS</i>
DRG PERTAINS TO	SUBMITTED
D 33991	LEARNED
	1. STANCES ON ENCL. NOT OVERPAGE COPY SET FOR FRANCHISE BUREAU OF
	G.M. <i>CS</i>
DRG PERTAINS TO	SUBMITTED
D 33991	LEARNED
	1. STANCES ON ENCL. NOT OVERPAGE COPY SET FOR FRANCHISE BUREAU OF
	G.M. <i>CS</i>
DRG PERTAINS TO	SUBMITTED
D 33991	LEARNED
	1. STANCES ON ENCL. NOT OVERPAGE COPY SET FOR FRANCHISE BUREAU OF
	G.M. <i>CS</i>
DRG PERTAINS TO	SUBMITTED
D 33991	LEARNED
	1. STANCES ON ENCL. NOT OVERPAGE COPY SET FOR FRANCHISE BUREAU OF
	G.M. <i>CS</i>
DRG PERTAINS TO	SUBMITTED
D 33991	LEARNED

MICROFILM - A44 - 111

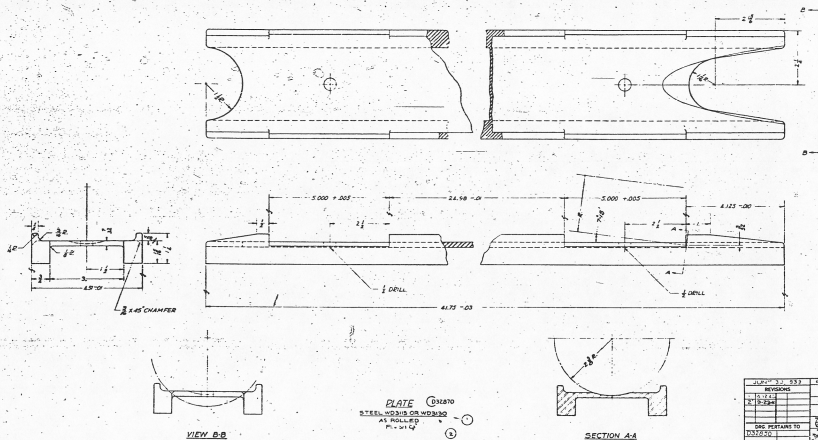






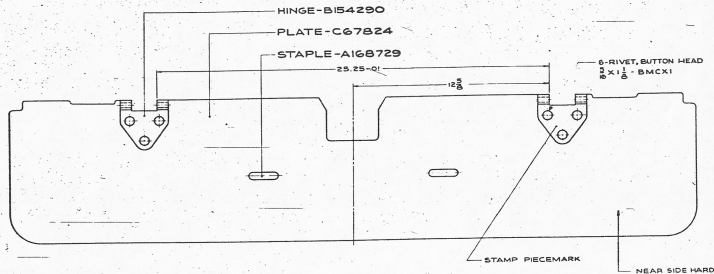


PHYSICAL PROPERTIES	
1. 1.	
1. 2.	
1. 3.	
1. 4.	
1. 5.	
1. 6.	
1. 7.	
1. 8.	
1. 9.	
1. 10.	
1. 11.	
1. 12.	
1. 13.	
1. 14.	
1. 15.	
1. 16.	
1. 17.	
1. 18.	
1. 19.	
1. 20.	
1. 21.	
1. 22.	
1. 23.	
1. 24.	
1. 25.	
1. 26.	
1. 27.	
1. 28.	
1. 29.	
1. 30.	
1. 31.	
1. 32.	
1. 33.	
1. 34.	
1. 35.	
1. 36.	
1. 37.	
1. 38.	
1. 39.	
1. 40.	
1. 41.	
1. 42.	
1. 43.	
1. 44.	
1. 45.	
1. 46.	
1. 47.	
1. 48.	
1. 49.	
1. 50.	
1. 51.	
1. 52.	
1. 53.	
1. 54.	
1. 55.	
1. 56.	
1. 57.	
1. 58.	
1. 59.	
1. 60.	
1. 61.	
1. 62.	
1. 63.	
1. 64.	
1. 65.	
1. 66.	
1. 67.	
1. 68.	
1. 69.	
1. 70.	
1. 71.	
1. 72.	
1. 73.	
1. 74.	
1. 75.	
1. 76.	
1. 77.	
1. 78.	
1. 79.	
1. 80.	
1. 81.	
1. 82.	
1. 83.	
1. 84.	
1. 85.	
1. 86.	
1. 87.	
1. 88.	
1. 89.	
1. 90.	
1. 91.	
1. 92.	
1. 93.	
1. 94.	
1. 95.	
1. 96.	
1. 97.	
1. 98.	
1. 99.	
1. 100.	



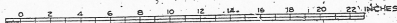
MICROFILM - A 44 - 115





APRON (G68298

MAGNITUDE DE DIMENSION  
 NON OBTENUE (SPECIFIQUE)  
 UNICALE :  
 PLACONAL :  
 ANNUAL :



CG8288

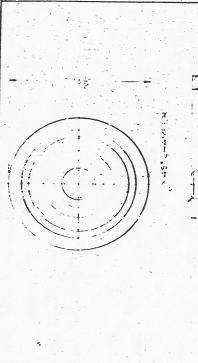
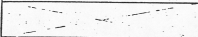
MADE AT ROCK ISLAND ARSENAL

PHYSICAL PROPERTIES		JUNE 30, 1939	
		REVISIONS	
T. P.		1	11-25-41
T. S.		2	1-1-44
EL. P.			
RES.			
BE.			
MOCL.			
SCL.			

SYMBOL		
DATE 1-1-54	TIME 10:00	100% CERTAIN 100%
NAME J.	GRADE 1st Lt.	COMMENTS 100%
SUBMITTED		
APPROVED BY CHIEF OF THE CHIEF OF ORDNANCE <i>C. V. ...</i>		
ORDNANCE DEPT. 1, 15, 5		



HEAT TREATMENT AND FINAL FINISH



SPINDLE  
STEEL WD 1.1250

(B) 4.320

SCALE 1

B157329

PHYSICAL PROPERTIES		JUNE 30, 1939 REVISIONS	
T P	35.000*	1	4-12-40
T S	60.000*	2	4-14-41
EL 1	2.5	3	7-1-43
RED	45°		
BR			
ROCK			
SCL			

DRG. PERTAINS TO

034063

SYMBOL

REVISIONS FOR 10 1.00 000 000

W.T.N.

CHRY. HOFFMAN

SUBMITTED

REV. 001 0.00

APPROVED BY ORDER OF THE CHIEF OF ORDNANCE

REV. 001 0.00

ORDNANCE DEPT. U. S. A.

MADE AT ROCK ISLAND ARSENAL

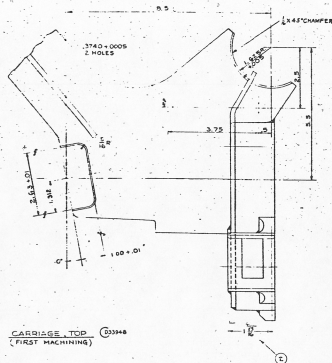
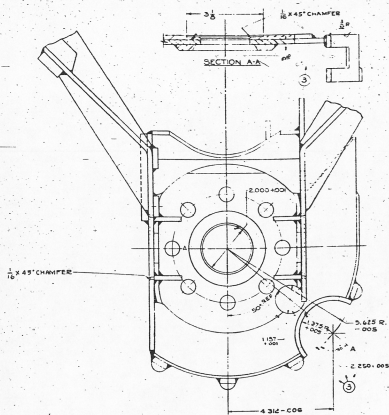
MICROFII M - A 44 - 1 1 7











CARRIAGE TOP  
(FIRST MACHINING) (B33948)

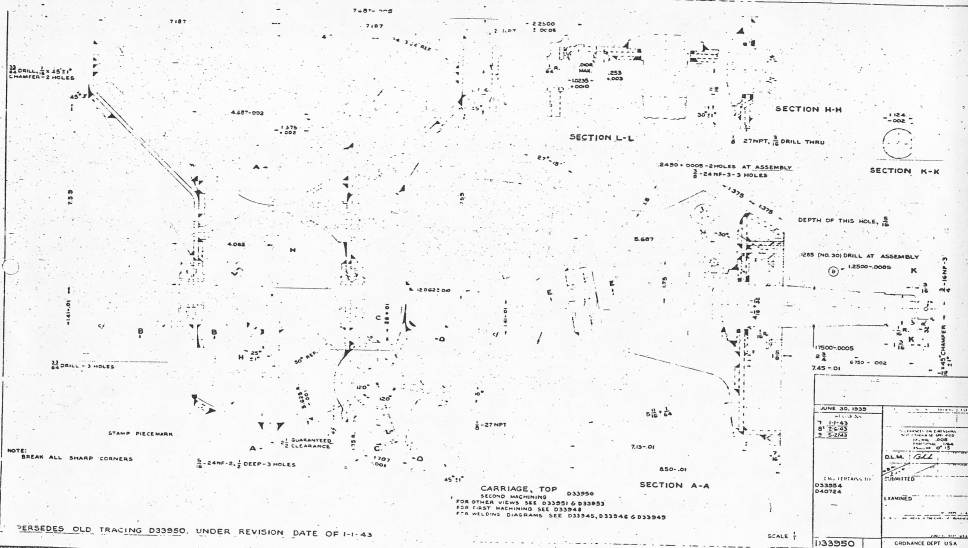
REVISIONS OF DRAWING  
AND SPECIFICATIONS  
SHOWN  
HEREIN  
PAGES 1  
OF 1

REVISIONS		DATE	BY	REASON
1	1.0000			
2	1.0000			
3	1.0000			
DRAWN BY		SYMBOL		
DMS PERTAINS TO		TITLE		
D33948		DLM		
SUBMITTER		DATE		
EXAMINED		DATE		
APPROVED		DATE		
OPERANCE DEPT. U. S.		MADE AT ROCK ISLAND		

SCALE 1/2

D33948

MICROFILM - A 44 - 217

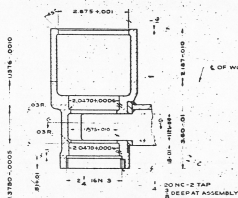


MICROFILM - A44 - 218

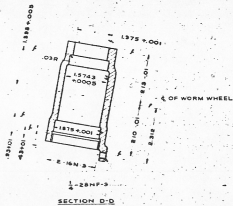




SECTION B-B



SECTION C-C

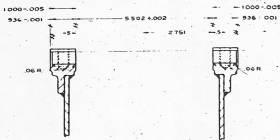


SECTION D-D

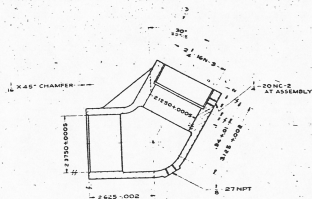
SECTION E-E



SECTION E-E



SECTION F-F



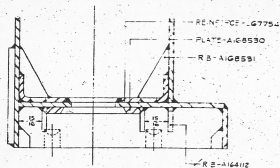
SECTION G-G

CARRIAGE TOP  
SECOND MACHINING

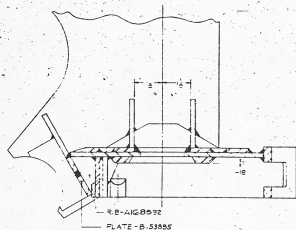
SCALE

JUNE 30, 1955		DATE	BY	CHKD	APP'D	REV
SYMBOL						
ONE PERTAINS TO						
SUBMITTED						
EXAMINED						
DATE						
BY						
FOR						
REMARKS						
ORIGIN: DPT. M. S. A.						
MADE AT ROCK ISLAND ARMO						

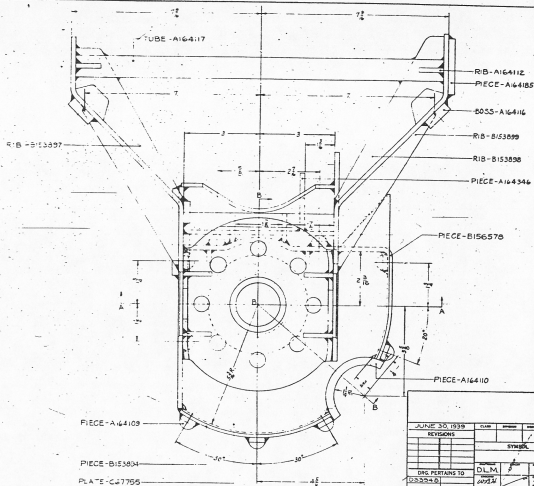
MICROFILM - A 44 - 220



SECTION A-A



SECTION B-B



CARRIAGE TOP  
033945  
FOR OTHER VIEWS SEE 033948

0 1 2 3 4 5 6 7 8 9 10 INCHES

JUNE 30, 1939		CLASS	INDEX	RECORD	FILE
KEYWORDS					
DLM					
SUBMITTED					
EXAMINED					
033945					
MADE AT ROCK ISLAND ARSENAL					

MICROFILM - A44 - 223







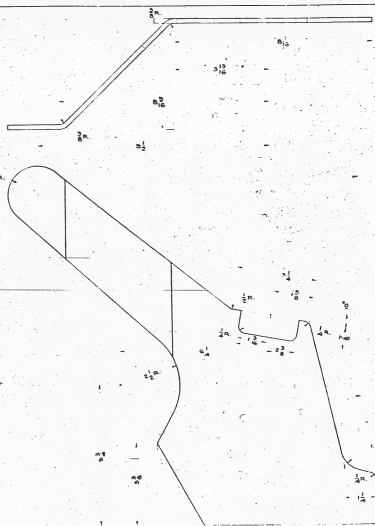


PLATE  
LOW ALLOY STEEL, GRADE 2  
3/16 THICK, NORMALIZED

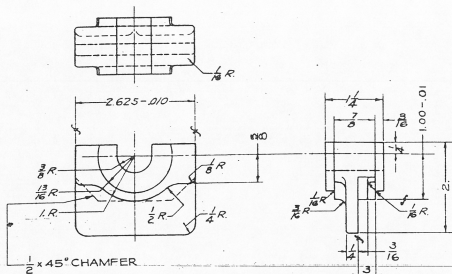
RETRACED FROM OLD TRACING  
WITHOUT CHANGE 7-10-43

SCALE 1

JUNE 30, 1939	
1 4-12-40	
DR. PLATE NO. 035002	035046
L.E.H. GW.	
DRAWN BY	
CHECKED BY	
DATE	
SIGNATURE	
032975	OFFICE NFI, U.S.A.



HEAT TREATMENT AND FINAL FINISH



BEARING  
STEEL WD311S  
AS FORGED

B153893

SCALE

B153893

PHYSICAL  
PROPERTIES

JUNE 30, 1939

REVISIONS

Y. P.	1	4-12-40	
T. S.	2	8-30-40	
EL. 2			
RED			
BR.			
ROCK			
SCL.			

DRG. PERTAINS TO

D33085

D33949

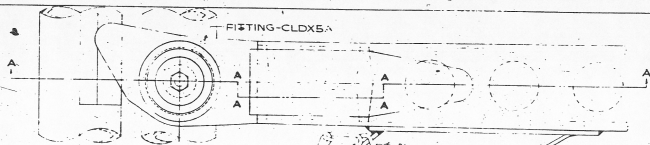
D50053

SYMBOL

DESIGNED BY W.J.H. CHECKED BY W.A.W.  
 DRAWN BY W.A.W. APPROVED BY W.A.W.  
 SUBMITTED:

ORD. DEPT. U.S.A.  
 APPROVED BY THE CHIEF  
J.V. Jiles  
 CHIEF DRAFTSMAN  
 ORD. DEPT. U.S.A.  
 ORDNANCE DEPT. U.S.A.  
 MADE AT ROCK ISLAND ARSENAL



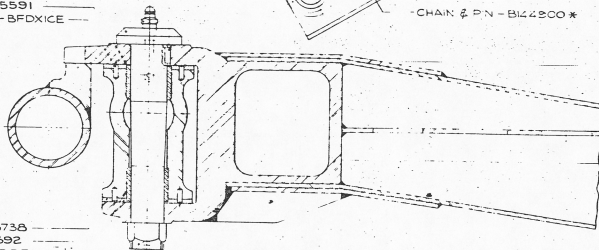


PHYSICAL PROPERTIES		REVISIONS	
Y P		3	325-42
T S		4	4-18-42
EL 2		5	11-8-43
RED			
BR			
ROCK			
SCL			

KEY - A168688  
FITTING - A168822  
PIN - B156552  
BUSHING - B195591  
PIN, STRAIGHT - BFDXICE

LOCATE AT ASSEMBLY

-CHAIN: 2 PN - B1449CO \*



WASHER - A168738  
BUSHING - B195592  
NUT, CASTLE - BBFX2C  
PIN, COTTER - BFA10DK

CONNECTION, TRAIL

SUPERSEDES OLD TRACING C67841,  
UNDER REVISION DATE OF 3-25-42

# FINDING DIAGRAM

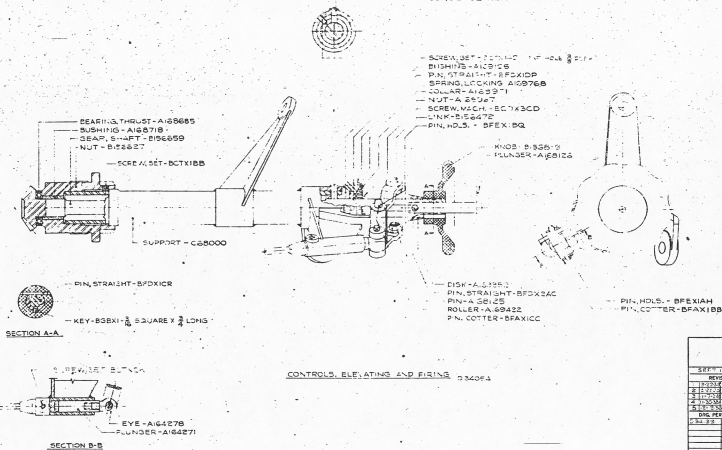
SYMBOL		
SEARCHED	INDEXED	FILED
SERIALIZED	FILED	INDEXED
SUBMITTED		

APPROVED BY ORDER OF THE COURT  
OF ORGANIZATION

MICROFILM - A 44 -

277

CUP, CL - CLPX2A



REF ID	DATE	REVISION	REVISION	REVISION
034054				
REVISIONS				
1	10/1/54			
2	10/1/54			
3	10/1/54			
4	10/1/54			
5	10/1/54			
6	10/1/54			
7	10/1/54			
8	10/1/54			
9	10/1/54			
10	10/1/54			
Dwg. Pertains to				
SUBMITTED				
EXAMINED				
APPROVED BY				
034054				
ORDNANCE DEPT., U.S.A.				
MADE AT ROCK ISLAND ARMO.				

MICROFILM - A44 -





SCREW, SET- BCTKIAD  
(TAF NO. 1 DEEP)  
CUP, CIL-CLFX2A



BEARING, THRUST-A168685  
BUSHING-A168718  
NUT-B156627  
CRAP, SET-B193888

SCREW, SET-BCTKI8B

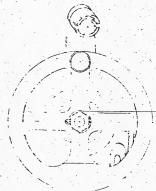


SCREW, SET-BCTKI8B  
SUPPORT-C16371  
SUPPORT-C16371

BUSHING-A169106  
NLT-A168967  
COLLAR-A168971  
PIN, STRAIGHT-BFDK1DP  
SPRING, LOCKING-A169768  
SCREW, MACH-BCK93CD



PIN, COTTER-BFAX1DG  
NUT, HEX-BBHX1A  
HANDWHEEL-C66338X



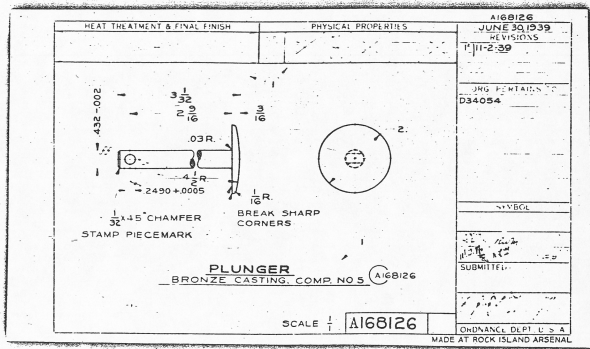
SCREW, SET-BCTKI8B

NOTE: THE DRAWING IS  
NOT TO BE USED FOR  
REPRODUCTION OR FOR  
COPYING UNLESS IN WRITING  
BY THE OFFICE OF THE  
NAVY, WASHINGTON, D.C.

IF ALTERNATE DESIGN  
IS FINDING DIAGRAM

OCT 18 1941		DATE	REVISION	BY
REVISIONS				
1. 10-18-41				
2. 10-18-41				
3. 10-18-41				
4. 10-18-41				
5. 10-18-41				
6. 10-18-41				
7. 10-18-41				
8. 10-18-41				
9. 10-18-41				
10. 10-18-41				
11. 10-18-41				
12. 10-18-41				
13. 10-18-41				
14. 10-18-41				
15. 10-18-41				
16. 10-18-41				
17. 10-18-41				
18. 10-18-41				
19. 10-18-41				
20. 10-18-41				
21. 10-18-41				
22. 10-18-41				
23. 10-18-41				
24. 10-18-41				
25. 10-18-41				
26. 10-18-41				
27. 10-18-41				
28. 10-18-41				
29. 10-18-41				
30. 10-18-41				
31. 10-18-41				
32. 10-18-41				
33. 10-18-41				
34. 10-18-41				
35. 10-18-41				
36. 10-18-41				
37. 10-18-41				
38. 10-18-41				
39. 10-18-41				
40. 10-18-41				
41. 10-18-41				
42. 10-18-41				
43. 10-18-41				
44. 10-18-41				
45. 10-18-41				
46. 10-18-41				
47. 10-18-41				
48. 10-18-41				
49. 10-18-41				
50. 10-18-41				
51. 10-18-41				
52. 10-18-41				
53. 10-18-41				
54. 10-18-41				
55. 10-18-41				
56. 10-18-41				
57. 10-18-41				
58. 10-18-41				
59. 10-18-41				
60. 10-18-41				
61. 10-18-41				
62. 10-18-41				
63. 10-18-41				
64. 10-18-41				
65. 10-18-41				
66. 10-18-41				
67. 10-18-41				
68. 10-18-41				
69. 10-18-41				
70. 10-18-41				
71. 10-18-41				
72. 10-18-41				
73. 10-18-41				
74. 10-18-41				
75. 10-18-41				
76. 10-18-41				
77. 10-18-41				
78. 10-18-41				
79. 10-18-41				
80. 10-18-41				
81. 10-18-41				
82. 10-18-41				
83. 10-18-41				
84. 10-18-41				
85. 10-18-41				
86. 10-18-41				
87. 10-18-41				
88. 10-18-41				
89. 10-18-41				
90. 10-18-41				
91. 10-18-41				
92. 10-18-41				
93. 10-18-41				
94. 10-18-41				
95. 10-18-41				
96. 10-18-41				
97. 10-18-41				
98. 10-18-41				
99. 10-18-41				
100. 10-18-41				

MICROFILM - A44 - 286



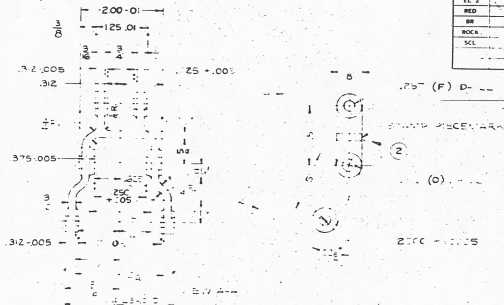
MICROFILM - A 44 -



## HEAT TREATMENT AND FINAL FINISH

~~HEAT TREAT NO. 2~~

2



ALUMINUM ALLOY CASTING, GRADE 60-61  
BRONZE CASTING, COMP 5  
OR MALLEABLE IRON CASTING, TYPE A

SCALE

## PHYSICAL PROPERTIES

Y P  
T S 300000  
EL T  
RED  
BR  
ROCK  
SCL

JUNE 30, 1939

## REVISIONS

1 12-29  
2 8-4-41

## DRG PERTAINS TO

## SYMBOL

DESIGNED BY: T. C. H. CHECKED BY: J. C. H. SUBMITTED BY: J. C. H.

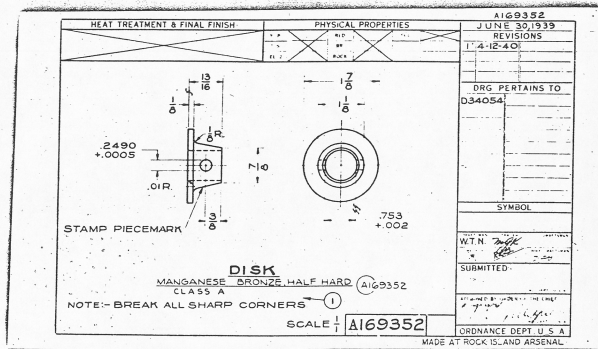
SUBMITTED

APPROVED BY: J. C. H. THE CHIEF OF ADVANCE

ORDNANCE DEPT. U. S. A.

MADE AT ROCK ISLAND ARSENAL

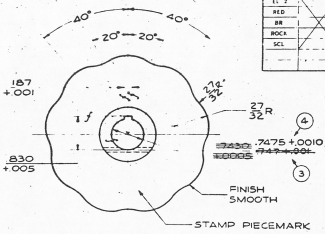
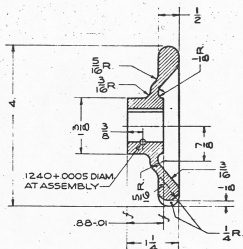
B156472



MICROFILM - A 44



HEAT TREATMENT AND FINAL FINISH  
~~HEAT TREAT NO. 2~~



2 → ALUMINUM ALLOY CASTING, GRADE NO. 1  
 2 → MALLEABLE IRON CASTING, TYPE A

TOLERANCE ON DIMENSIONS  
 NOT OTHERWISE SPECIFIED  
 DECIMAL :  
 FRACTIONAL :  
 ANGULAR :

SCALE 1" = 1"

PHYSICAL PROPERTIES		JUNE 30, 1939 REVISIONS	
T. P.	1 14-12-40		
T. S.	2 8-4-41		
EL. 2	3 12-20-41		
RED	4 1-1-43		
BR			
ROCK			
SCL			

DRG. PERTAINS TO  
 034054

SYMBOL

APPROVED BY: [Signature]  
 DATE: 11-1-43  
 SUBMITTED BY: [Signature]  
 DATE: 11-1-43  
 ORDNANCE DEPT. U. S. A.  
 MADE AT ROCK ISLAND ARSENAL

MICROFILM - A 44 -

HEAT TREATMENT AND FINAL FINISH

PHYSICAL  
PROPERTIESOCT. 18, 1941  
REVISIONS

Y P	
Y S	
EL 2	
RED	
SW	
FOCK	
SCL	

1	7-18-42
2	11-10-43

DRG. PERTAINS TO

039449

SYMBOL

DESIGNED	BY	DATE	BY	DATE
TMB				

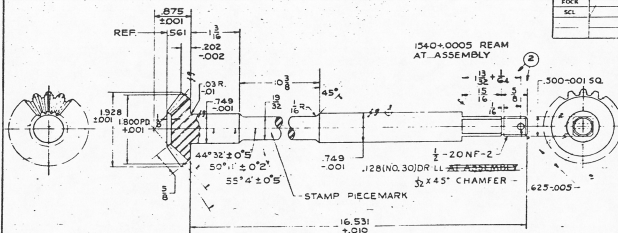
CHECKED	BY	DATE	BY	DATE

SUBMITTED:

APPROVED BY ORDER OF THE CHIEF  
OF ORDNANCE

ORDNANCE DEPT. U.S.A.

MADE AT ROCK ISLAND ARSENAL



GEAR, SHAFT

STEEL W24140 - COLD FINISHED

18 TEETH, 10 DIAMETRAL PITCH (3142 C P);  
STC 14 1/2" INVOLUTE FORM  
TO MESH WITH GEAR, DEVEL-AIG6G54  
WITH MAX. ALLOWABLE BACKLASH OF .006

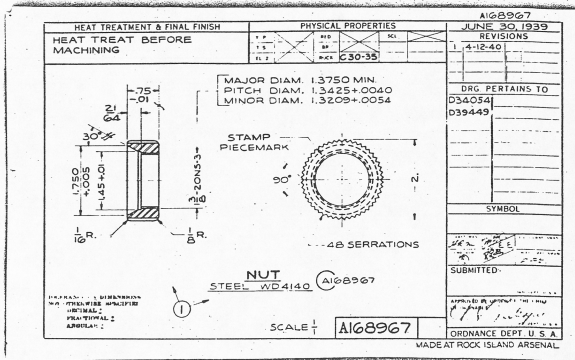
B193888

SCALE 1/2

B193888

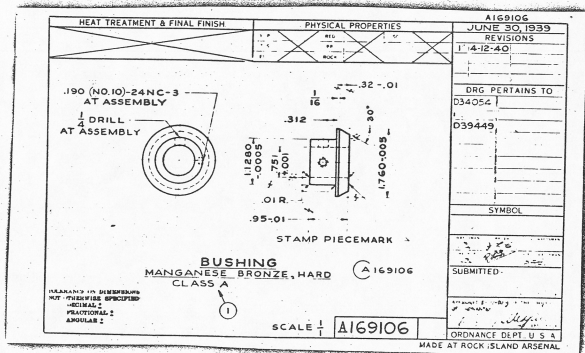
PARALLEL TO CHAMFER  
NOT DIMENSIONED UNLESS SPECIFIED  
FRACTIONAL 1/64  
ANGLE 1/2°

MICROFILM - A 44



MICROFILM - A44 -

2 1



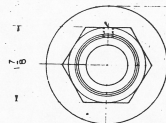
MICROFILM - A44 -



HEAT TREATMENT AND FINAL FINISH

$\frac{1}{4}$ -20 NC-3, AT ASSEMBLY

1.5625+0.0010

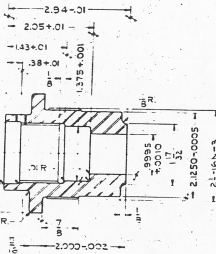


STAMP PIECEMARK

NUT  
STEEL WOK1315  
AS ROLLED

(B156627)

ALL DIMENSIONS  
UNLESS OTHERWISE  
SPECIFIED  
ARE IN INCHES  
AND FRACTIONS  
OF AN INCH



SCALE 1  
T

B156627

PHYSICAL  
PROPERTIES

TEMP	
EL 2	
WTD	
PR	
SHK A	
W 1	

JUNE 30, 1939  
REVISIONS

1. 4-12-40

DWG PERTAINS TO

D340541  
D39449

SYMBOL

STANDARD  
E.O. 12812

WTN 1315

SUBMITTED

APPROVED BY: LIEUTENANT COLONEL

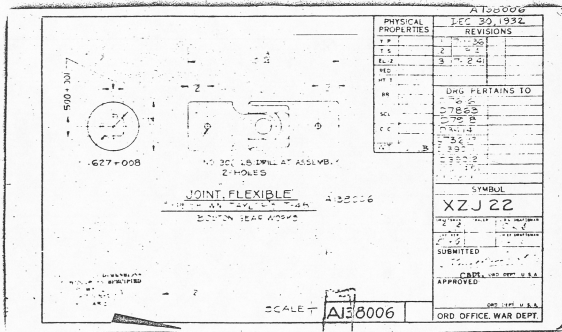
OF ORDNANCE

ORDNANCE DEPT. U.S.A.

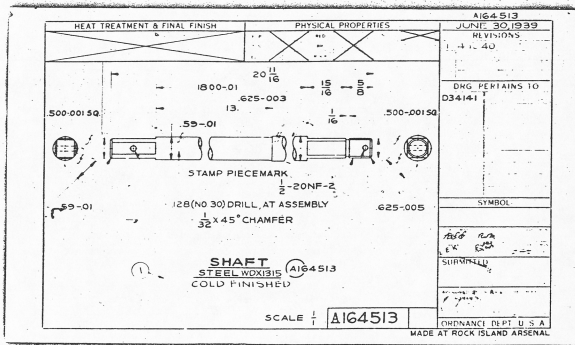
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A 44





207



MICROFILM - A44 -



## HEAT TREATMENT AND FINAL FINISH

PHYSICAL  
PROPERTIES

JUNE 30, 1939.

## REVISIONS

T. P.	1	12-14-39	
T. S.	2	4-12-40	
EL. 2			
RED			
BR			
ROCK			
RCL			

## DRG. PERTAINS TO

B34141

STAMP DECEMARK

 $\frac{1}{32} \times 45^\circ$  CHAMFER

4-25 NF-2

1/8" BAR SIZE

HANDLE  
STEEL 70X1315-B-54181  
COLD FINISHED

QUALITY	INSP.	INSP.	INSP.
INSP.	INSP.	INSP.	INSP.
INSP.	INSP.	INSP.	INSP.

SUBMITTED:

ORD. DEPT. U. S. A.

APPROVED BY ORDER OF THE CHIEF

OF ORDNANCE

ORDNANCE DEPT. U. S. A.

SCALE 1

B154191

MADE AT ROCK ISLAND ARSENAL

MICROFILM - A 44



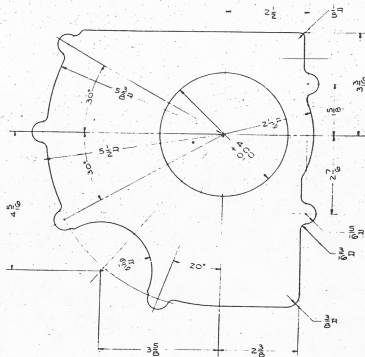


PLATE  
PLAIN CARBON STEEL  
1/8 THICK, HOT ROLLED, PICKLED

C67769

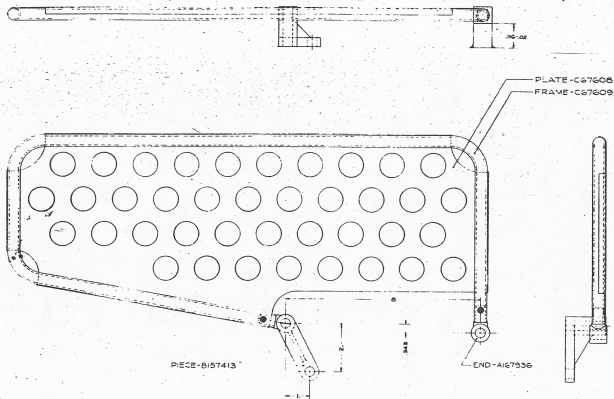
SCALE: C67769

PHYSICAL PROPERTIES	JUNE 30, 1973
1	1 4.12.60
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	
61	
62	
63	
64	
65	
66	
67	
68	
69	
70	
71	
72	
73	
74	
75	
76	
77	
78	
79	
80	
81	
82	
83	
84	
85	
86	
87	
88	
89	
90	
91	
92	
93	
94	
95	
96	
97	
98	
99	
100	

SYMBOL
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100

MICROFILM - A44 -





REVISIONS OF DRAWINGS  
AND SPECIFICATIONS  
SHOWN IN  
REVISIONS  
TABLE 1

SHARP SHOULDER (WELDED) (D33060)

0 1 2 3 4 5 6 7 8 9 10 11 INCHES

APPROVED TO 10/18		DATE	BY	REVISION
REVISIONS				
		SYMBOL		
		REVISION	DATE	BY
ORG. PERTAINS TO		REVISION	DATE	BY
1. 10/18/18		REVISION	DATE	BY
2. 10/18/18		REVISION	DATE	BY
3. 10/18/18		REVISION	DATE	BY
4. 10/18/18		REVISION	DATE	BY
5. 10/18/18		REVISION	DATE	BY
6. 10/18/18		REVISION	DATE	BY
7. 10/18/18		REVISION	DATE	BY
8. 10/18/18		REVISION	DATE	BY
9. 10/18/18		REVISION	DATE	BY
10. 10/18/18		REVISION	DATE	BY
11. 10/18/18		REVISION	DATE	BY
12. 10/18/18		REVISION	DATE	BY
13. 10/18/18		REVISION	DATE	BY
14. 10/18/18		REVISION	DATE	BY
15. 10/18/18		REVISION	DATE	BY
16. 10/18/18		REVISION	DATE	BY
17. 10/18/18		REVISION	DATE	BY
18. 10/18/18		REVISION	DATE	BY
19. 10/18/18		REVISION	DATE	BY
20. 10/18/18		REVISION	DATE	BY
21. 10/18/18		REVISION	DATE	BY
22. 10/18/18		REVISION	DATE	BY
23. 10/18/18		REVISION	DATE	BY
24. 10/18/18		REVISION	DATE	BY
25. 10/18/18		REVISION	DATE	BY
26. 10/18/18		REVISION	DATE	BY
27. 10/18/18		REVISION	DATE	BY
28. 10/18/18		REVISION	DATE	BY
29. 10/18/18		REVISION	DATE	BY
30. 10/18/18		REVISION	DATE	BY
31. 10/18/18		REVISION	DATE	BY
32. 10/18/18		REVISION	DATE	BY
33. 10/18/18		REVISION	DATE	BY
34. 10/18/18		REVISION	DATE	BY
35. 10/18/18		REVISION	DATE	BY
36. 10/18/18		REVISION	DATE	BY
37. 10/18/18		REVISION	DATE	BY
38. 10/18/18		REVISION	DATE	BY
39. 10/18/18		REVISION	DATE	BY
40. 10/18/18		REVISION	DATE	BY
41. 10/18/18		REVISION	DATE	BY
42. 10/18/18		REVISION	DATE	BY
43. 10/18/18		REVISION	DATE	BY
44. 10/18/18		REVISION	DATE	BY
45. 10/18/18		REVISION	DATE	BY
46. 10/18/18		REVISION	DATE	BY
47. 10/18/18		REVISION	DATE	BY
48. 10/18/18		REVISION	DATE	BY
49. 10/18/18		REVISION	DATE	BY
50. 10/18/18		REVISION	DATE	BY
51. 10/18/18		REVISION	DATE	BY
52. 10/18/18		REVISION	DATE	BY
53. 10/18/18		REVISION	DATE	BY
54. 10/18/18		REVISION	DATE	BY
55. 10/18/18		REVISION	DATE	BY
56. 10/18/18		REVISION	DATE	BY
57. 10/18/18		REVISION	DATE	BY
58. 10/18/18		REVISION	DATE	BY
59. 10/18/18		REVISION	DATE	BY
60. 10/18/18		REVISION	DATE	BY
61. 10/18/18		REVISION	DATE	BY
62. 10/18/18		REVISION	DATE	BY
63. 10/18/18		REVISION	DATE	BY
64. 10/18/18		REVISION	DATE	BY
65. 10/18/18		REVISION	DATE	BY
66. 10/18/18		REVISION	DATE	BY
67. 10/18/18		REVISION	DATE	BY
68. 10/18/18		REVISION	DATE	BY
69. 10/18/18		REVISION	DATE	BY
70. 10/18/18		REVISION	DATE	BY
71. 10/18/18		REVISION	DATE	BY
72. 10/18/18		REVISION	DATE	BY
73. 10/18/18		REVISION	DATE	BY
74. 10/18/18		REVISION	DATE	BY
75. 10/18/18		REVISION	DATE	BY
76. 10/18/18		REVISION	DATE	BY
77. 10/18/18		REVISION	DATE	BY
78. 10/18/18		REVISION	DATE	BY
79. 10/18/18		REVISION	DATE	BY
80. 10/18/18		REVISION	DATE	BY
81. 10/18/18		REVISION	DATE	BY
82. 10/18/18		REVISION	DATE	BY
83. 10/18/18		REVISION	DATE	BY
84. 10/18/18		REVISION	DATE	BY
85. 10/18/18		REVISION	DATE	BY
86. 10/18/18		REVISION	DATE	BY
87. 10/18/18		REVISION	DATE	BY
88. 10/18/18		REVISION	DATE	BY
89. 10/18/18		REVISION	DATE	BY
90. 10/18/18		REVISION	DATE	BY
91. 10/18/18		REVISION	DATE	BY
92. 10/18/18		REVISION	DATE	BY
93. 10/18/18		REVISION	DATE	BY
94. 10/18/18		REVISION	DATE	BY
95. 10/18/18		REVISION	DATE	BY
96. 10/18/18		REVISION	DATE	BY
97. 10/18/18		REVISION	DATE	BY
98. 10/18/18		REVISION	DATE	BY
99. 10/18/18		REVISION	DATE	BY
100. 10/18/18		REVISION	DATE	BY

D33860

ORIGINATOR: REPT. U.S.  
MADE AT ROCK ISLAND, ILL.

MICROFILM - A44 -

227









PHYSICAL PROPERTIES		REVISIONS	
T.P.			
CL. 2			
REV.			
NO.			
NO.			
NO.			
NO.			
NO.			

DRG. PERTAINS TO

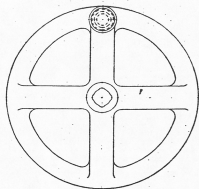
D34141

D39449

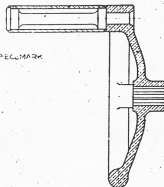
D41233

D41294

STEM-A164138  
SLEEVE-A164139

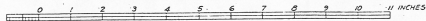


STAMP RECMARK



HANDWHEEL-B153909

HANDWHEEL C66338



066338

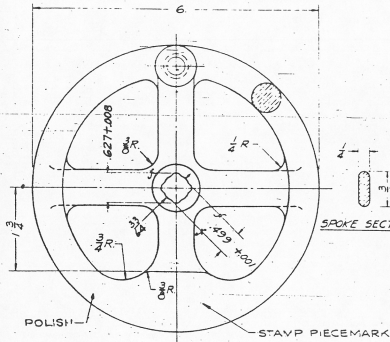
SYMBOL	
DESCRIPTION	SYMBOL
NAME	SYMBOL
DATE	SYMBOL
SUBMITTED	SYMBOL
APPROVED BY COMMAND	
ORDNANCE	

MICROFILM - A44 - 2 1 0

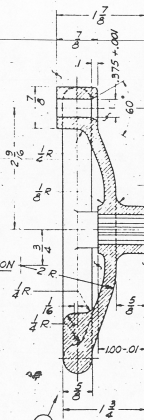
## HEAT TREATMENT AND FINAL FINISH

~~HEAT TREATING~~

3



SPOKE SECTION



3

COINED SURFACE

ALTERNATE SECTION

4

## PHYSICAL PROPERTIES

Y. P.	1	8-28-32
T. S.	2	4-12-40
EL. 2	3	8-4-41
RED	4	6-17-42
DR.		
ROCK		
RCL		

JUNE 30, 1939

## REVISIONS

DRG. PERTAINS TO

C66330

## SYMBOL

REVIEWER	TRACER	LYN	EC/FORM
DIRECTOR			
CHIEF			
SUBMITTED:			

ORD. DEPT. U. S. A.

APPROVED BY ORDER OF THE CHIEF OF ORDNANCE:

ORDNANCE DEPT. U. S. A.

MADE AT ROCK ISLAND ARSENAL

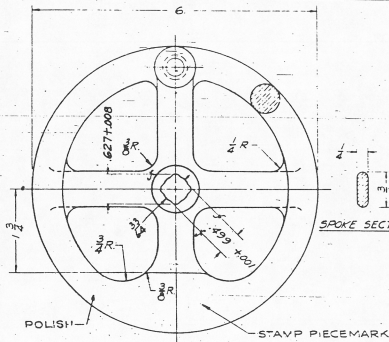
**HANDWHEEL** (B153909)  
~~STAINLESS STEEL CASTING CLASS NO.~~  
**MALLEABLE IRON CASTING, TYPE A**

SCALE

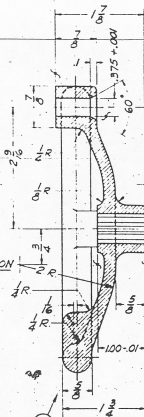
B153909

HEAT TREATMENT AND FINAL FINISH  
~~HEAT TREATING~~

3



SPOKE SECTION



COINED SURFACE

ALTERNATE SECTION

PHYSICAL PROPERTIES	
Y. P.	50,000
T. S.	50,000
EL. E.	30-44
RED.	46-17-42
BR.	
ROCK.	
BCL.	

JUNE 30, 1939	
REVISIONS	
1	5-28-39
2	4-12-40
3	8-4-41
4	6-17-42

DRG. PERTAINS TO

CGG338

SYMBOL

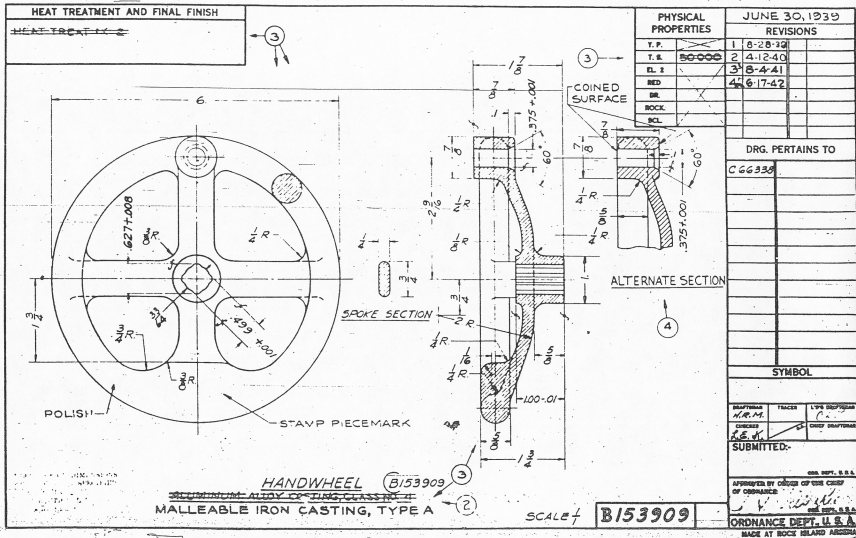
DRAFTSMAN  
H.R.M.  
CHECKED  
R.S.H.  
SUBMITTED:

ORD. DEPT. U.S.A.  
APPROVED BY ORDER OF THE CHIEF OF ORDNANCE  
R.S.H.  
ORD. DEPT. U.S.A.  
ORDNANCE DEPT. U.S.A.  
MADE AT ROCK ISLAND ARSENAL

HANDWHEEL B153909  
~~ALUMINUM ALLOY CASTING CLASS 'H'~~  
MALLEABLE IRON CASTING, TYPE A

SCALE 1/2" = 1"

B153909



HEAT TREATMENT AND FINAL FINISH

PHYSICAL PROPERTIES		MARCH 4, 1942	
		REVISIONS	
1	1	4-20-42	
2	2	6-24-42	
3			
4			
5			
6			
7			
8			
9			
10			

DRG PERTAINS TO

C9085H

RIB-A231062

RIB-A231066

RIB-A231064

REFERS TO DUPLEX PRINTING  
PRESS CO'S DRG NO D32915-1

1/4" DIA. - 1/16" DIA.  
1/8" DIA. - 1/16" DIA.  
1/16" DIA. - 1/32" DIA.

HOUSING  
FIRST WELDING

0 1 2 3 4 5 6 7 8 9 10 11 INCHES

C90850

DATE	BY	FOR
26		
SUBMITTED		
APPROVED BY (NAME OF THE CASE)		
DATE		

ORDNANCE DEPT U.S.A.  
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A44 - 266



HEAT TREATMENT AND FINAL FINISH

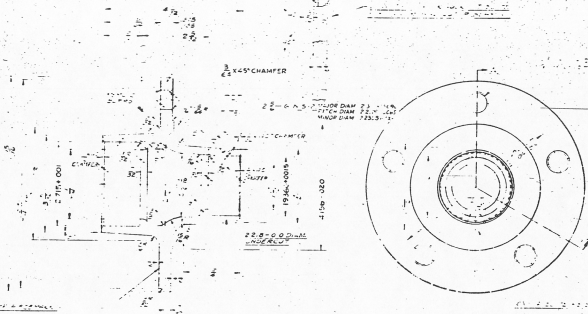
PHYSICAL  
PROPERTIES

ALP/PL 14, 1942  
REVISIONS

F P  
F S  
EL 2  
RE  
IN  
ROCK  
SIL

DRG PERTAINS TO

1-1  
005237



H/B C. 5103  
MAY 1904

SECTION A-A

REFERS TO BUDD WHEEL CO'S  
DRAWING NO. 45455-D

REVISED  
A-1016

091634

ORDNANCE DEPT. U.S.A.

MICROFILM - A44 -





GUIDE = 0.7277

PIN, HEADLESS-BFEX:CF  
PIN, COTTER-BFAX:CD  
BRACKET-CC:47J  
BRACKET-B:95827\*2  
PIECE-AIG8736

SCREW, CAP, FL. H. - ECLX 1A  
STAKE AT ASSEMBLY  
LATCH - AL 710P  
BRACKET - C 911  
BRACKET - B 958C PM

SECTION A-A  
SCALE 3/4" = 1'-0"

- WASHER - A172528  
- P.I., STRAIGHT - BFDXIEN  
- SCREW, SET - BCTXIAB -  
- PLUNGER - A172777 -

NUT, CASTLE-BBFX2E  
PIII, COTTER-BFAXIDT  
WASHER-AI73519  
BUSHING-AI73520

BRACKET-C91846 A  
BRACKET-72620  
SUNETTE-C4935J 4

LOCK, TRAIL AND LUNETTE

NOTE (STMM GUN CORR)  
FOR OTHER S.W. OF TRAILS  
SEE 043001 & 043003  
NOTE (PROJECTOR, T3)  
FOR OTHER VIEWS OF TRAILS  
SEE 041209 & 041290

\* 2012115 = ASRAY

SEPT. 21, 1932

3-2-4 0 320-42	
4-12-40 0 4-10-42	
4-12-40 10 4-6-42	AT 11
6-12-41 11 7-16-42	
7-12-40 12 9-0-42	
9-12-41 13 10-1-42	SUMMITED
11-12-41 14 11-1-42	
12-12-41 15 12-1-42	
1-1-42 16 1-1-42	EXAMINED
2-1-42 17 2-1-42	
3-1-42 18 3-1-42	
D32989	ONE

X PERTAINS TO ALTERNATIVE OF DRG. C59477  
Z PERTAINS TO ALTERNATIVE OF DRG. C59479  
A PERTAINS TO ALTERNATIVE OF DRG. C72620

MICROFILM - A 44 -

400

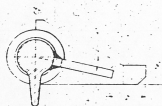








SECTION B-B



SECTION A-A

STAVI ECEVANA

LEVER-A-12325

RIB-A-12325

BODY-12325

UNETTE  
EASTMAN KODAK COMPANY

CONTAINS 100 PAGES  
OF PHOTOGRAPHIC  
RECORDS  
REPRODUCED  
BY MICROFILM

Frame 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

069359

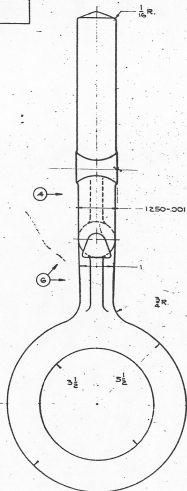
MADE AT THE ISLAND ARSENAL

MICROFILM - A44 -

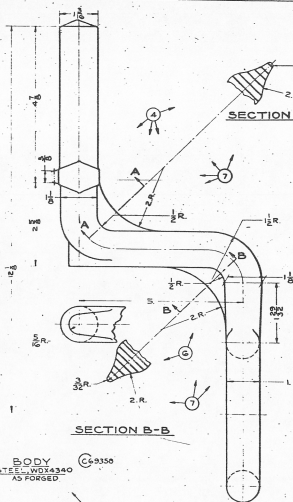
105



HEAT TREATMENT & FINAL FINISH:  
HEAT TREAT BEFORE  
MACHINING



PLEASE USE OR INSTRUCTIONS  
FOR TESTING AND SPECIFICATIONS  
FOR MATERIALS  
FOR TESTING AND SPECIFICATIONS  
FOR TESTING AND SPECIFICATIONS



BODY  
STEEL, WDA3340  
AS FORGED

C69350

SECTION A-A

SECTION B-B

JULY 18, 1939	
PHYSICAL PROPERTIES	REVISIONS
T.T.	5-11-28-35
T.T.	5-14-28-40
EL. 2	4-8-20-41
W.D.	5-9-16-41
W.D.	6-17-20-41
W.D.	7-2-28-42
W.D.	
W.D.	

DRG PERTAINS TO

C69350

SYMBOLS  
FOR  
SUBMITTED

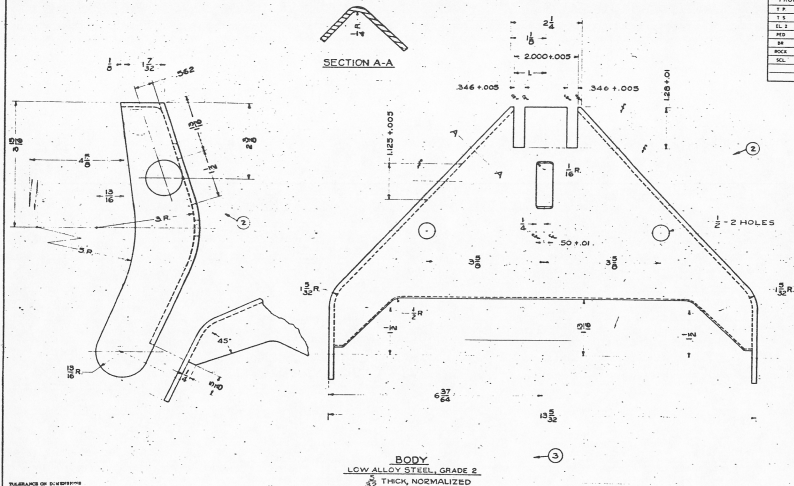
SCALE: C69358

ORDINANCE DEPT. U.S.

MADE AT ROCK ISLAND ARSENAL

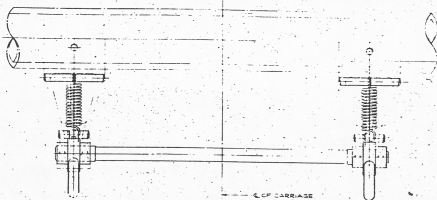
MICROFILM - A44 -







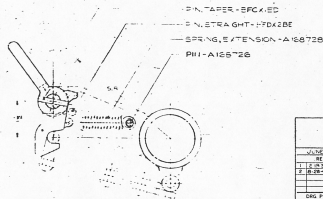
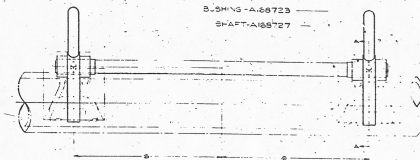




FOUO-A168724

BUSHING - A.68723

SF-AFT-A189727



SECTION 4-2

JUNE 30, 1939		1. NAME	2. OFFICE	3. DIVISION
REVIEWS				
1	2	3	4	5
1	2	3	4	5
SYMBOL				
ORG PERTAINS TO				
1-125-1				
1-129-1				
SUBMITTED				
EXAMINED				
MADE AT ROCK ISLAND				
ORGANIZATION DEPT. U. S.				



SCREW, CAP - EX HD - BCBX3CB  
WAS - LOCKING - BFWX1A  
PIN, STRAIGHT - BFDX5H

BRACKET - B184015  
BUSHING - A164355  
CASE, GEAR - C67814  
SCREW, CAP - EX HD - BCBX1BD  
WAS - LOCK, SHAKEPROOF - BEAX1K

BUSH - NS - A164518  
CAP - A164390  
WASHER - A164396

WASHER - A169679  
GEAR, BEVEL - A168655  
SCREW, ELEVATING - B166639  
THIMBLE - A168665

BEARINGS, THRUST - A168664

PIN, STRAIGHT - BFDX2AC  
CASE, GEAR - C67813  
BUSHING - A168719  
PIN - A168522

GEAR, SHAFT - B16624  
BUSH - NS - A16879  
RETAINER, C - A164397  
NUT - A164191  
PIN, COTTER - BFA1818  
GEAR, BEVEL - A168654

SCREW, SET - BCTX2R  
CUP - A168552  
PIN, STRAIGHT - BFDX1BC

SETTING - A168522

SCREW, SET - BCTX1BD

CONTROL, ELEVATING AND Firing - B164354\*

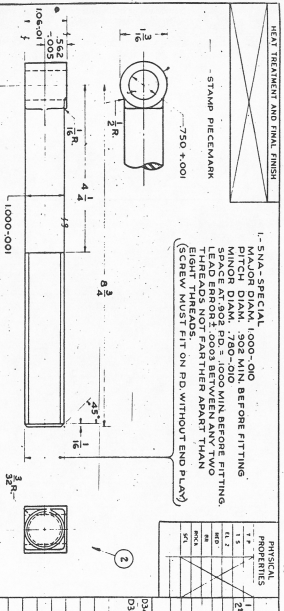
MECHANISM, ELEVATING

\* FINDING DIAGRAM

JUNE 30 1939			
REVISION	DATE	BY	REMARKS
1	11-2-39		
2	11-2-39		
SYMBOL			
1	11-2-39		
2	11-2-39		
ONE PERTAINS TO			
11-2-39-1			
SUBMITTED			
EXAMINED			
DATE			
BY			
REMARKS			
D34139			
ORDNANCE DEPT., U.S.A.			
MADE AT ROCK ISLAND ARS			

MICROFILM - A44 -

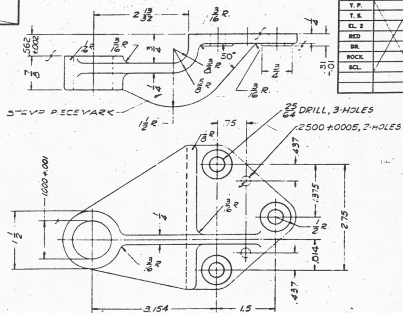
436

[illegible]

B156639



TOLERANCE ON DIMENSIONS  
NOT OTHERWISE SPECIFIED  
DECIMAL  
FRACTIONS ±  
ANGLES ±



BRACKET  
STEEL CASTING, GRADE NO. 2

SCALE  $\frac{1}{2}$  B154015

[illegible]

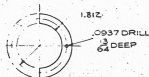
MICROFILM - A 44 -



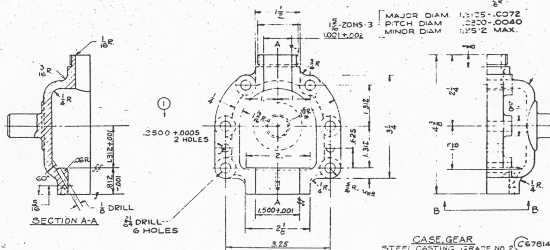
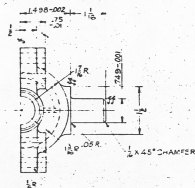
PHYSICAL PROPERTIES		JUNE 30, 1944	REVISION
1 P		1	1
1 S			
1 E			
1 H			
1 R			
1 K			
1 L			

DRG. PERTAIN

034.33  
039450



VIEW B-B



STAMP & ECEMARK

NOTE: MACHINE WITH MATING PART C67813

1. ALL DIMENSIONS ARE UNLESS OTHERWISE SPECIFIED.  
2. DECIMALS .0005  
3. FRACTIONS 1/16  
4. ANGLES 1/2°

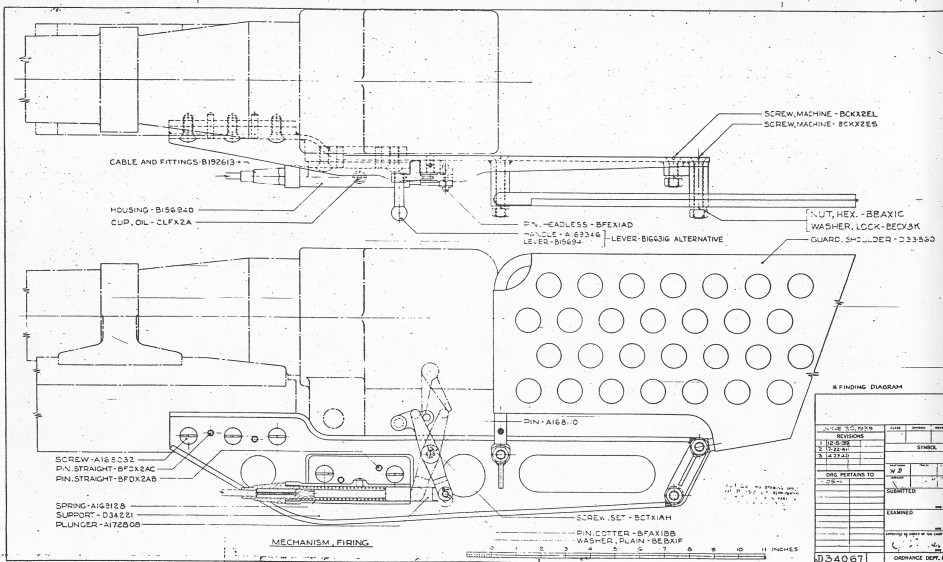
①

SCALE: C67814

SYMBOL	
1/16	1/16
1/8	1/8
1/4	1/4
1/2	1/2
3/4	3/4
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

ORDNANCE DEPT.  
MADE AT ROCK ISLAND A

MICROFILM - A44 - 1 5 5



REFERENCE DIAGRAM

REVISIONS		DATE	REVISION	BY
1	12-26-56			
2	12-26-56			
3	12-26-56			

ORG. PERTAINS TO		DATE	BY	BY
1	12-26-56			

SUBMITTED		DATE	BY	BY
1	12-26-56			

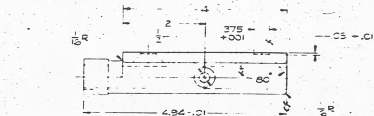
  

EXAMINED		DATE	BY	BY
1	12-26-56			

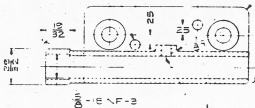
  

D34067  
 ORDNANCE DEPT. II  
 MADE AT ROCK ISLAND

HEAT TREATMENT AND FINAL FINISH

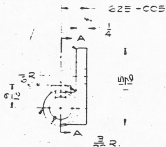


2-3 310  
15-625



SECTION A-A

HOUSING  
BRONZE CASTING, CORR. NO. 5 8156940



STAMP PIECE MARK

SCALE - 8156940

PHYSICAL PROPERTIES		JUNE 30, 1939	
		REVISIONS	
T. P.			
T. A.			
EL. 2			
RED			
BR			
ROCK			
SCL			

DRG. PERTAINS TO

D34067  
M53756  
D41009

SYMBOL

DESIGNED	TOLER	U. S. DRAFTSMAN
CHKD		
EXCISE		
		CHIEF DRAFTSMAN

SUBMITTED:

APPROVED BY ORDER OF THE CHIEF OF ORDNANCE

ORDNANCE DEPT., U. S. A.  
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A44 -

HEAT TREATMENT AND FINAL FINISH

SPHERICAL DIAMETER

STAMP PIECEMARK

SECTION A-A

-100-02-

PHYSICAL  
PROPERTIES

JANUARY 18, 1940

REVISIONS

1	1-30-40
2	2-9-40
3	4-12-40

T.S.	80,000
EL.	6%-12%
RED.	
BR.	160
ROCK.	
VEL.	

DRG PERTAINS TO

D34067

EJM

SUBMITTED

ORDNANCE DEPT. U.S.A.

MADE AT ROCK ISLAND ARSENAL

LEVER

ALUMINUM BRONZE CASTING, GRADE B  
ALTERNATIVE DESIGN MAY BE USED IN LIEU  
OF A169346 AND B156941

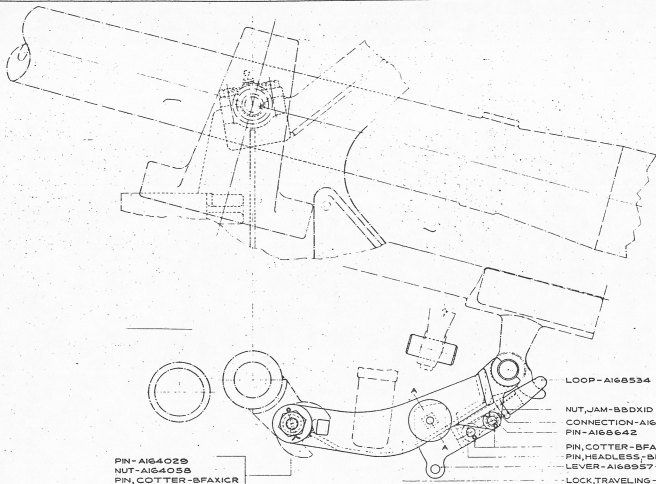
ALL FILLETS AND RADII TO BE  $\frac{1}{16}$   
UNLESS OTHERWISE SPECIFIED.  
BREAK ALL SHARP CORNERS

SCALE

B166316

MICROFILM - A44 -

1 6 1



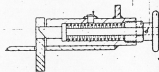
PIN-A164029  
NUT-A164058  
PIN, COTTER-BFAXICR  
BUSHING-A164762

LOOP-A168534

NUT, JAM-B8DXID  
CONNECTION-A168539  
PIN-A168642  
PIN, COTTER-BFAXICD  
PIN, HEADLESS-BFEXICF  
LEVER-A168957\*  
LOCK, TRAVELING-C67806

MECHANISM, LOCK, TRAVELING

KNOB-A168749  
PIN, STRAIGHT-BFDXICM  
GUIDE-A168748  
SPRING, HELICAL-A168747  
CUP, OIL-CLFX2A  
PLUNGER-A168732



SECTION A-A

\* FINDING DIAGRAM

JUNE 30, 1939		REVISED	SYMBOL
0-1-2			
ENG. PLANS TO		1-1-2	1-1-2
1-150-1		1-150-1	1-150-1
EXAMINED			
333980			
MADE AT WELT FOR AEG 3800			

MICROFILM - A44 - 167















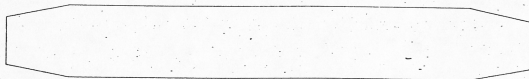
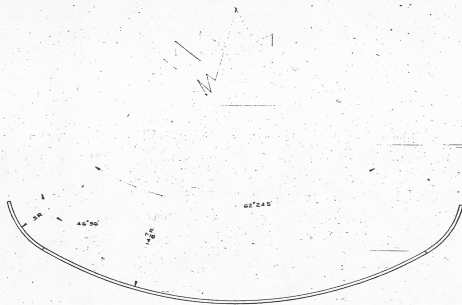
[illegible]











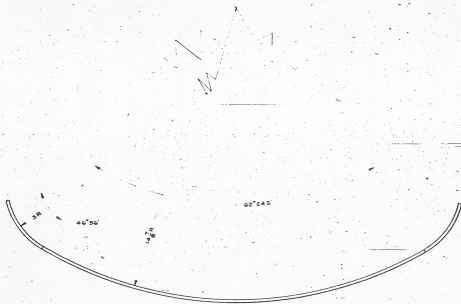
DEVELOPED LENGTH

FOOT ①-1005  
LOW ALLOY STEEL GRADE 2  
THICK, NORMALIZED

①

JUNE 30, 1939	
REV. NO.	1
4 040	
SYMBOL	
Dwg. PERTAINS TO	
034072	
SUBMITTED	
EXAMINED	
SCALE 1 1/2	
034065	ORIGINATE DEPT. U S A
MADE AT ROCK ISLAND ARSENAL	

MICROFILM - A 44 - 536



DEVELOPED LENGTH

FOOT ① 04003  
LOW ALLOY STEEL GRADE 2  
8 THICK, NORMALIZED

①



JUNE 30 1928	
BY PLAN	
1 4-240	
	SYMBOL
DRG PERTAINS TO	
034077	
SUBMITTED	
EXAMINED	
SCALE 1 134065	
ORIGINATE DEPT U S A	
MALE AT ROCK ISLAND ARSENAL	

MICROFILM - A44 - 536



HEAT TREATMENT AND FINAL FINISH

PHYSICAL  
PROPERTIES

JUNE 30, 1939

REVISIONS

T T	1
T S	2
FL 2	3
MT	
RA	
PH. 6	
SC	

1	4-13-40
2	5-4-41
3	5-13-42

DRG PERTAINS TO

D34025

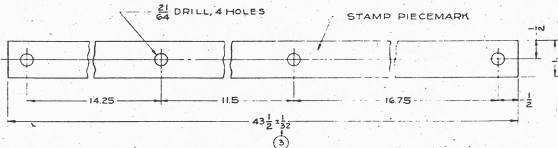
SYMBOL

SUBMITTED

APPROVED BY: (SEE THE END OF DRAWING)

ORDNANCE DEPT U S A

REV. AT WORK STAND SYMBOL



BAR

ALUMINUM ALLOY (AL-CU-MG-MN) (B156905)

3/8 THICK, CONDITION T

PLAIN CARBON STEEL

1/8 THICK

.005  
64 - (3)

SCALE 1/4" = 1"

B156905

MICROFILM - A44 - 511

HEAT TREATMENT AND FINAL FINISH

PHYSICAL  
PROPERTIES

JUNE 30, 1939  
REVISIONS

1. 4-12-40  
2. 5-4-41  
3. 5-13-42

1. 4-12-40  
2. 5-4-41  
3. 5-13-42

DRG PERTAINS TO

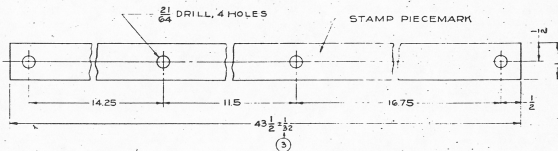
D34025

SYMBOL

SUBMITTED

APPROVED BY: [Signature] [Date]

ORDNANCE DEPT U.S.A.  
WASH. D.C.



BAR  
ALUMINUM ALLOY (AL-CU-MG-MN) (R 156905)  
1/8 THICK, CONDITION T  
PLAIN CARBON STEEL  
1/8 THICK

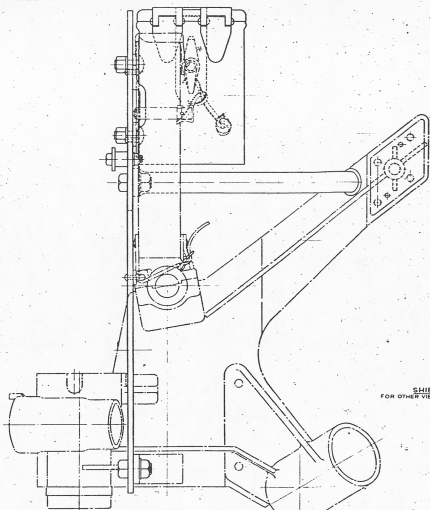
005  
64 - 3

SCALE 1/16" = 1"

B156905

MICROFILM - A44 - 511



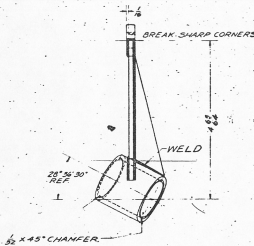
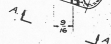
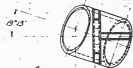


SHIELD  
FOR OTHER VIEW 318 D34025

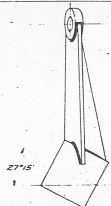
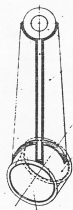
JUNE 30 1959		DATE	REVISION	BY
REVISIONS		1	STWICK	
THIS DRAWING TO		DATE	BY	BY
D34025		DATE	BY	BY
SUBMITTED		DATE	BY	BY
EXAMINED		DATE	BY	BY
APPROVED BY HEAD OF THE OFFICE OF INVENTION		DATE	BY	BY
ORDNANCE DEPT. U.S.A.		MADE AT ROCK ISLAND ARSENAL		

MICROFILM - A44 - 543





*SUPPORT.*



VIEW A-A

PHYSICAL PROPERTIES		JUNE 30, 1939	
		REVISIONS	
Y P			
T S			
EL 2			
RED			
SS			
ROCK			
SCL.			

DRG, PERTAINS TO

10 参考文献

095992

CG8000

SYMBOL		
REASONING W.F.N.	TRACER	LOG REASONING 1
CHECKED D.L.M.	<input checked="" type="checkbox"/>	CHECK REASONING 2-3
SUBMITTED:		
GND DEPT. U.S.A.		
APPROVED BY OFFICE OF THE CHIEF OF COMPTROLLER <i>[Signature]</i> GND DEPT. U.S.A.		
ORDNANCE DEPT. U.S.A.		

SCALE  $\frac{1}{2}$

C 66537

MICROFILM - A44 - 552

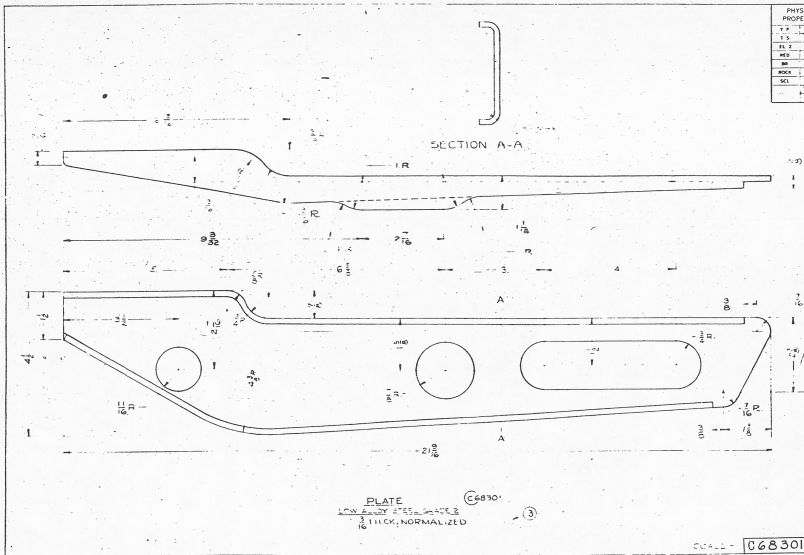










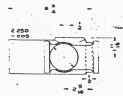
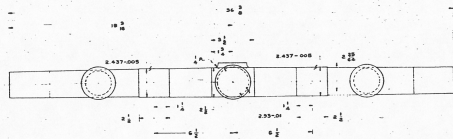
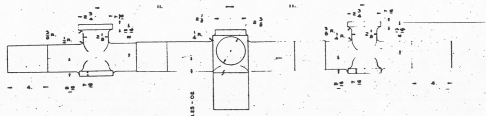








MATERIAL  
 PROPERTIES  
 TENSILE  
 YIELD  
 ELONGATION  
 REDUCED  
 SECTION  
 HARDNESS  
 BRINELL  
 ROCKWELL  
 CHARPY  
 TEMPER  
 TREATMENT  
 FINISH



BODY  
 STEEL, WDA150  
 NORMALIZED  
 FINISH 1/2

NOTE: - FOR FORGING DRAWING SEE D34483

SUPERSEDES OLD TRACING D33977, UNDER REVISION DATE OF 1-1-43

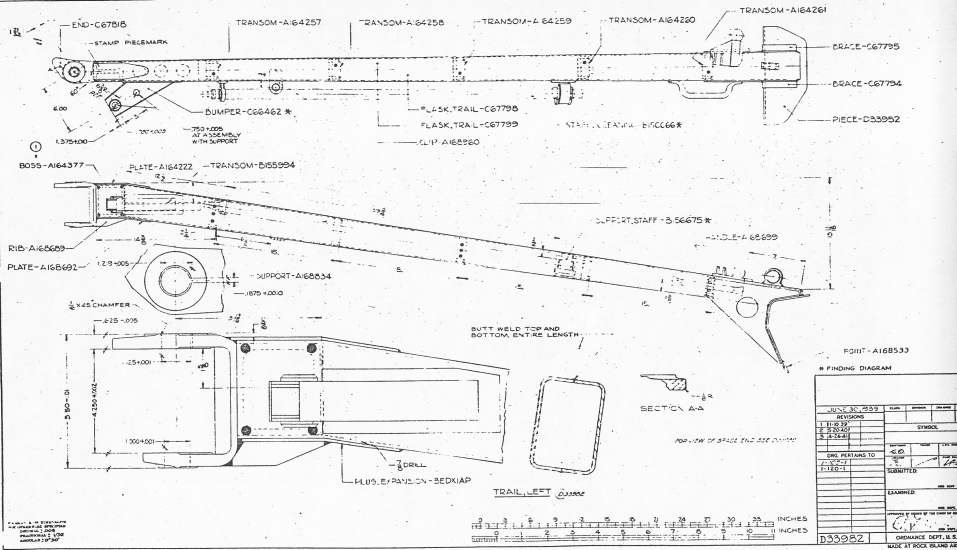
SCALE 1/2

JUNE 30, 1935	
REVISION	
3	1-1-43
CHECKED BY THE DESIGN ENGINEER APPROVED BY THE DESIGNER C.E.A. D.A.G.	
SUBMITTED EXAMINED D33977	
D33977 ORGANIC BODY W.D.	

MICROFILM - A44 - 608

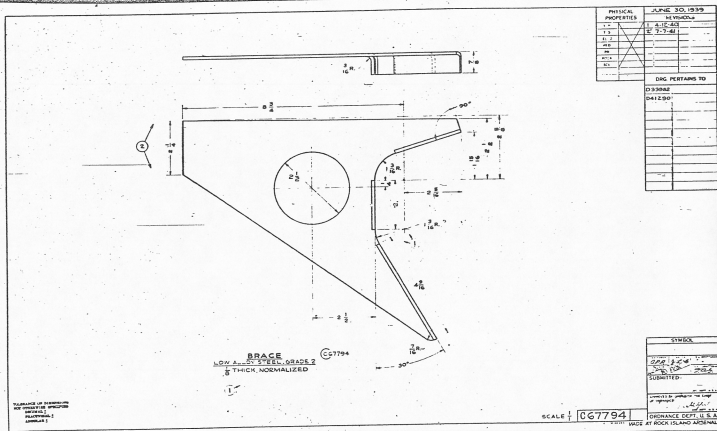


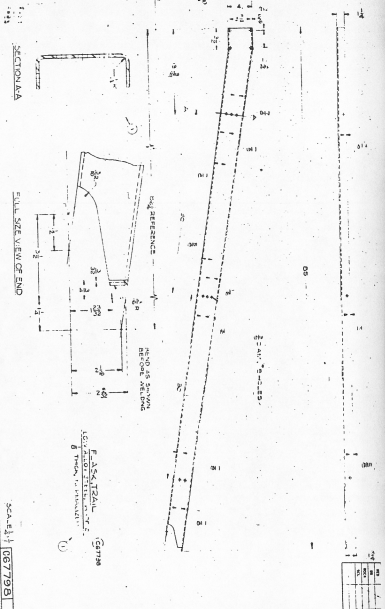




MICROFILM - A44 - 612

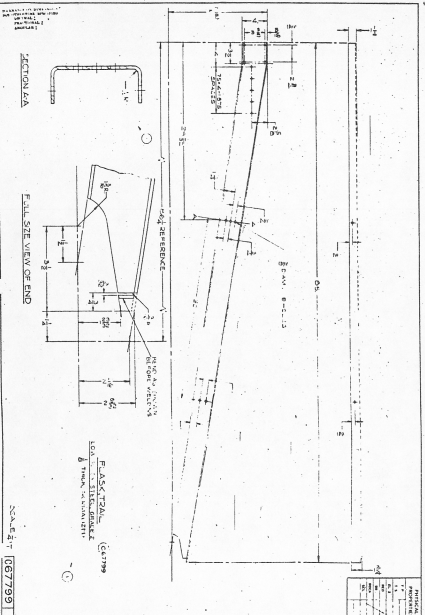






MICROFILM - A44 -

616







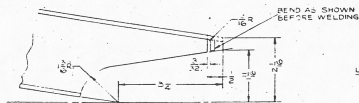
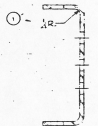
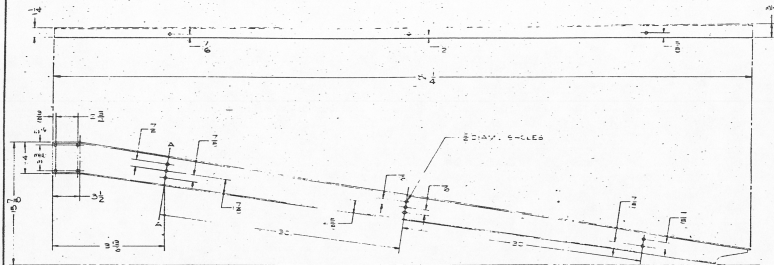


PHYSICAL PROPERTIES		JUNE 30, 1959	
		REVISIONS	
TYPE		1	5 12 43
TS			
EL 2			
RED			
BR			
ROCK			
SCL			

PHYSICAL PROPERTIES		JUNE 30, 1959	
		REVISIONS	
Y P		1	5 12 40
Y S			
EL 2			
RED			
BR			
ROCK			
SCL			
		DSC PERTAINS TO	

PHYSICAL PROPERTIES		JUNE 30, 1959	
		REVISIONS	
Y P		1	5 12 40
Y S			
EL 2			
RED			
BR			
ROCK			
SCL			
		DSC PERTAINS TO	

PHYSICAL PROPERTIES		JUNE 30, 1959	
		REVISIONS	
Y P		1	5 12 40
Y S			
EL 2			
RED			
BR			
ROCK			
SCL			
		DSC PERTAINS TO	



FLASK TRAIL (C67801)  
LOW ALLOY STEEL, GRADE 2  
8 THICK, NORM. T. T. 220 - (1)

LOW ALLOY STEEL, GRADE 2

THIRD, NEGATIVE

SCALE  $\frac{1}{4}$  -  $\frac{1}{1}$  C67801

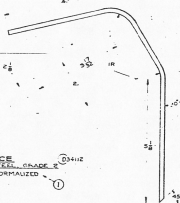
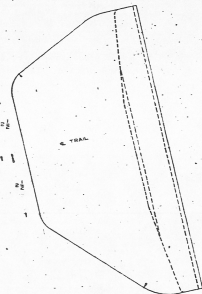
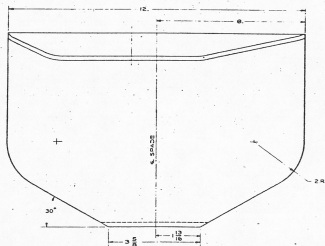
C67801

SYMBOL	
SEARCHED <input checked="" type="checkbox"/> INDEXED <input checked="" type="checkbox"/> SERIALIZED <input checked="" type="checkbox"/> FILED <input checked="" type="checkbox"/>	MAR 12 1968 FBI - NEW YORK
SUBMITTED:	
APPROVED BY ORDER OF THE CHIEF OF BUREAU (Signature)	
GRONRANCE DEPT. U.S. AT ROCK ISLAND ARSENAL	

MICROFILM - A44 - 626



3/16 X 12 X 12



PIECE  
LOW ALLOY STEEL, GRADE 2  
1/2" THICK, NORMALIZED

JULY 30, 1959	
REVISIONS	
1	4-17-60
DRAWN BY	
CHECKED BY	
EXAMINED BY	
APPROVED BY	
DATE	
SCALE	
1/34112	
OFFICE OF THE SECRETARY OF DEFENSE	

MICROFILM - A44 - 628

GUARD (B154660A-R.H.)  
(B154460B-L.H.)

FITTING-A16022  
PIN, TAPER-BFCXIGG

PIN, TAPER-BFCXIGG  
COLLAR-A169239

SCREW, CAP-B08XICA  
WASHER, LOCK, SHKPR-BE31L

PIN-A164750  
PIN, COTTER-BFANIC

SCREW-A28751  
STATE ENC. AT ASSEMBLY

SPRING, HELICAL-A69305

PLUNGER-A69304

SEGMENT-334077

HANDLE-B52586  
PIN-A157897  
PIN, ROD END-BFFXD

WASHER, PLAIN-BEBXIK  
PIN, COTTER-BFANIC  
WASHER, PLAIN-BEBAIG  
PIN, COTTER-BFANIBB

VIEW A-A

APRON-C69288\*

WHEEL SEGMENT AND APRON

\* FINDING DIAGRAM

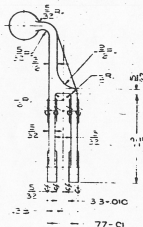
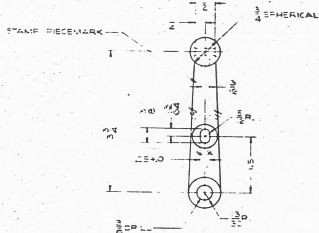
0 1 2 3 4 5 6 7 8 9 10 INCHES

ALL DIMENSIONS IN INCHES  
AND DECIMALS THEREOF  
UNLESS OTHERWISE  
SPECIFIED

DATE	NO.	REV.	BY	CHKD.	REMARKS
REVISIONS					
1	1	1			STABOL
DRAWING PARTS TO					
PROJECT	NO.	REV.	BY	CHKD.	REMARKS
1178-1	1	1			2/1/54
SUBMITTED					
EXAMINED					
APPROVED					
DATE					
134104					
ORIGINATOR: DEPT. OF THE ARMY					
MADE AT ROCK ISLAND ARS					

MICROFILM - A44 - 657

HEAT TREATMENT AND FINAL FINISH



HANDLE  
BROOME CASTING COMP NO 5 B15258c

BRAND: B15258c  
DATE: 10/10/10  
BY: 10/10/10  
A: 10/10/10

SCALE

B152588

PHYSICAL PROPERTIES
TEMP
EL 2
RED
BR
ROCK
SC

JUNE 30, 1939  
REVISIONS

DRG PERTAINS TO

D34104  
D54105  
D54245

SYMBOL

SUBMITTED

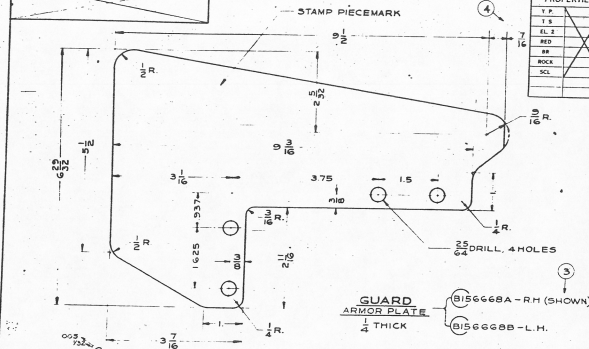
APPROVED BY ORDER OF THE CHIEF  
OF ORDNANCE

ORDNANCE DEPT. U.S.A.  
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A44 -

66A

HEAT TREATMENT AND FINAL FINISH



PHYSICAL PROPERTIES	
T.P.	1 19-113-91
T.S.	2 11-25-41
EL. 2	3 5-6-42
RED	4 1-1-43
SP	
ROCK	
SCL	

JUNE 30, 1959  
REVISIONS

DRG. PERTAINS TO

034104

SYMBOL

SUBMITTED

APPROVED BY CHIEF OF THE CHIEF OF COMPLAINTS

ORDNANCE DEPT. U.S.A.  
MADE AT ROCK ISLAND ARSENAL

MICROFILM - A 44 -

665